

(19) World Intellectual Property Organization
International Bureau



18 JUL 2004

(43) International Publication Date
17 July 2003 (17.07.2003)

PCT

(10) International Publication Number
WO 03/058992 A1

(51) International Patent Classification⁷: H04Q 7/32, 7/38

(21) International Application Number: PCT/SE03/00034

(22) International Filing Date: 13 January 2003 (13.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0200106-3 14 January 2002 (14.01.2002) SE

(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON (publ.) [SE/SE]; S-126 25 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CRAMBY, Mathias

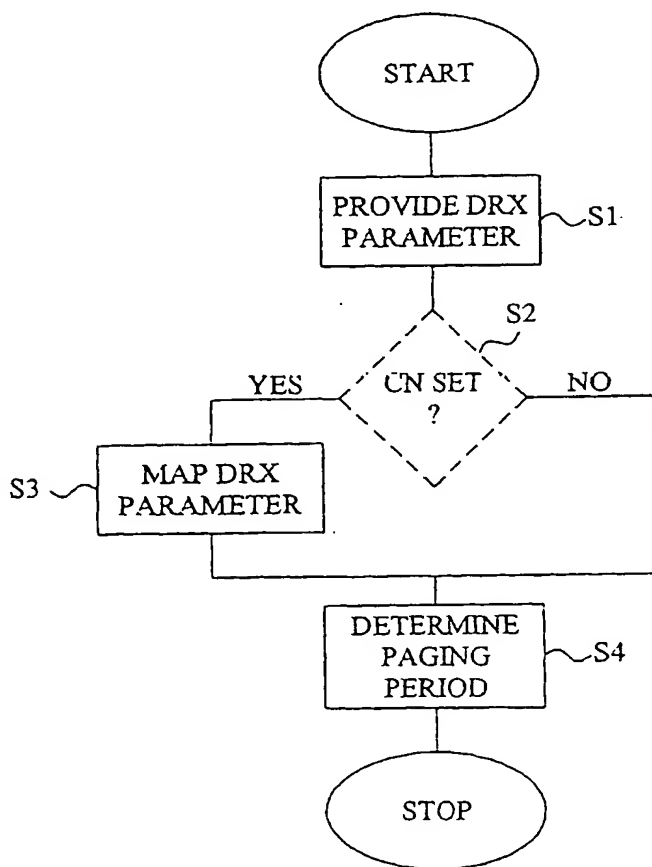
[SE/SE]; Skälbyvägen 18A, S-191 49 Sollentuna (SE). MAGNUSSON, Johan [SE/SE]; Anders Reimers väg 13, S-117 50 Stockholm (SE). MILDH, Gunnar [SE/SE]; Kevingeren 45, S-182 50 Danderyd (SE).

(74) Agent: AROS PATENT AB; P.O. Box 1544, S-751 45 Uppsala (SE).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: PAGING IN COMMUNICATION SYSTEMS



(57) Abstract: The present invention refers to methods and systems for enabling paging and DRX in a hybrid cellular communication system (1) comprising a core network (CN) (100) and radio access network (RAN) (200) employing different paging techniques. The core network (100) is associated with a DRX parameter of a CN associated parameter set, which according to the invention, is mapped to a value of a RAN associated parameter set. This resulting value may then be used by the radio access network (200) and/or a mobile station (300) for determining a present paging period of the mobile station (300). Furthermore, methods of selecting DRX parameters for a mobile station (300) in different operational modes are provided. The invention is particular applicable to a communication system (1) including a GERAN radio access network (200) operating in Iu mode.

WO 03/058992 A1